

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Hiroyuki SHINOZAKI

Div. of Serial Number: 09/600,116

Prior Group Art Unit: 2834

Filed: January 3, 2002

Prior Examiner: T. Lam

For: MAGNETIC BEARING CONTROLLER

PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

January 3, 2002

Sir:

Prior to examination on the merits, please amend the above-identified application as follows:

IN THE ABSTRACT:

Please add the Abstract of the Disclosure as shown on a separate page attached hereto.

IN THE CLAIMS:

Delete claims 1-4.

Add new claims 5-10 as follows:

5. A method for controlling a magnetic bearing device comprising:

detecting a position of a levitated body by a status detector unit, which uses a modulated
signal of a certain fundamental frequency;

eliminating frequency components of a frequency area around said fundamental frequency;
and

levitating said body at a predetermined position by magnetic force generated by an electromagnet.

6. A method according to claim 5, wherein said electromagnetic bearing device has a power amplifier unit for supplying controlled current to said electromagnet, said controlled current being pulse width modulated; and a signal amplifier unit for amplifying signal before inputting to said power amplifier.

7. A method according to claim 6, wherein an eliminator is inserted between said signal amplifier unit and said power amplifier unit.

8. A method according to claim 6, wherein said power amplifier unit is provided with a pulse width modulation circuit which comprises a comparator for comparing an input signal with chopper wave signal, and said eliminator is connected at the front end of said comparator.

9. A method according to claim 6, wherein said status detector is an inductance type displacement sensor.

10. A method according to claim 6, wherein said eliminator is a band eliminator filter.

REMARKS

Claims 5-10 are pending in this application.

In view of the aforementioned amendments and accompanying remarks, claims 5-8 are in condition for examination, which action, at an early date, is requested.

In the event that this paper is not timely filed, Applicant respectfully petitions for an appropriate extension of time. The fees for such an extension or any other fees which may be due with respect to this paper, may be charged to Deposit Account No. 01-2340.

Respectfully submitted,

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Atty. Docket No. 000859A

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Enclosure: Abstract of the Disclosure